```
#include <stdio.h>
#include <string.h>

#define MAX_USERS 5
#define MAX_FILES 5

// Each user has a name and a list of files
struct Directory {
    char userName[20];
    char fileName[MAX_FILES][20];
    int fileCount;
};

int main() {
    struct Directory dir[MAX_USERS];
    int userCount = 0;
    int choice;
    char user[20], file[20];

    while (1) {
        printf("\n--- Two Level Directory ---\n");
        printf("1. Create User\n");
        printf("2. Create File\n");
        printf("3. Show Files of User\n");
        printf("4. Show All Users and Files\n");
        printf("5. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
```

```
switch (choice) {
case 1:
    if (userCount >= MAX_USERS) {
        printf("Cannot add more users.\n");
        break;
    }
    printf("Enter user name: ");
    scanf("%s", dir[userCount].userName);
    dir[userCount].fileCount = 0;
    userCount++;
    printf("User created.\n");
    break;

case 2:
    printf("Enter user name: ");
    scanf("%s", user);
    int found = 0;
    for (int i = 0; i < userCount; i++) {
        if (strcmp(dir[i].userName, user) == 0) {
            found = 1;
            if (dir[i].fileCount >= MAX_FILES) {
                printf("File limit reached for this user.\n");
                break;
            }
            printf("Enter file name: ");
            scanf("%s", file);
            strcpy(dir[i].fileName[dir[i].fileCount], file);
```

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            dir[i].fileCount++;
            printf("File created.\n");
            break;
        }
    }
    if (!found) {
        printf("User not found.\n");
    }
    break;

case 3:
    printf("Enter user name: ");
    scanf("%s", user);
    for (int i = 0; i < userCount; i++) {
        if (strcmp(dir[i].userName, user) == 0) {
            printf("Files of %s:\n", user);
            for (int j = 0; j < dir[i].fileCount; j++) {
                printf("  %s\n", dir[i].fileName[j]);
            }
        }
    }
    break;

case 4:
    for (int i = 0; i < userCount; i++) {
        printf("\nUser: %s\n", dir[i].userName);
        for (int j = 0; j < dir[i].fileCount; j++) {
            printf("  File: %s\n", dir[i].fileName[j]);
```

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            }
        }
        break;

    case 5:
        return 0;

    default:
        printf("Invalid choice.\n");
    }
  }

  return 0;
}
```

```
--- Two Level Directory ---
1. Create User
2. Create File
3. Show Files of User
4. Show All Users and Files
5. Exit
Enter your choice: 1
Enter user name: ABC
User created.

--- Two Level Directory ---
1. Create User
2. Create File
3. Show Files of User
4. Show All Users and Files
5. Exit
Enter your choice: 2
Enter user name: XYZ
User not found.
```

```
--- Two Level Directory ---
1. Create User
2. Create File
3. Show Files of User
4. Show All Users and Files
5. Exit
Enter your choice: 4

User: ABC

--- Two Level Directory ---
1. Create User
2. Create File
3. Show Files of User
4. Show All Users and Files
5. Exit
Enter your choice: 5


...Program finished with exit code 0
Press ENTER to exit console.
```